CLAIMS

- 1. Pharmaceutical composition comprising 5 to 20% of an idazoxan salt or of idazoxan hydrate, 10 to 40% of microcrystalline cellulose, 1 to 5% of lubricant, 0.1 to 0.5% of colloidal silica and from 29.5% to 84.8% of lactose, with respect to the total mass.
- Pharmaceutical composition according to Claim 1,
 in which the salt is the hydrochloride.
- 3. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form I characterized by the X-ray diffraction spectrum presented in Figure 1.
- 4. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form I characterized by an X-ray diffraction spectrum comprising characteristic peaks at approximately 4.0200, 6.6400, 6.9000, 7.0800, 8.0800, 9.0000, 9.9600, 9.9600, 10.8400, 11.7200, 12.1400, 12.3800, 12.9800, 13.3000, 13.5200, 14.9000, 15.0600, 15.2400 and 21.4000 degrees θ .

25

30

- 5. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form I characterized by an X-ray diffraction spectrum comprising characteristic peaks at approximately 4.0200, 6.6400, 6.9000, 7.0800, 8.0800, 9.0000, 9.9600, 9.9600, 10.8400, 11.7200, 12.1400, 12.3800, 12.9800, 13.3000, 13.5200, 14.9000, 15.0600, 15.2400 and 21.4000 degrees θ and lacking at least one peak at approximately 4.7400, 5.7200, 8.9200, 16.8600 or 18.9000 degrees θ .
 - 6. Pharmaceutical composition according to Claims 3 to 5, in which the said polymorph of form I is characterized by a differential thermal analysis

thermogram exhibiting a single maximum value at approximately 207.5 ± 0.2 .

- 7. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form III characterized by the X-ray diffraction spectrum presented in Figure 3.
- 8. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form III characterized by an X-ray diffraction spectrum comprising characteristic peaks at approximately 4.0400, 4.7000, 5.7400, 6.6200, 6.9200, 7.4600, 8.0400, 8.7800, 8.9800, 9.9800, 10.8200, 11.4600, 11.6400,
- 15 12.3200, 12.9400, 13.5400, 14.2400, 15.0600, 15.6200 and 16.8400 degrees θ .
- 9. Pharmaceutical composition according to Claims 7 and 8, in which the said polymorph of form III is characterized by a differential thermal analysis thermogram exhibiting a single maximum value at approximately 203.8 ± 0.5.
- 10. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form IV characterized by the X-ray diffraction spectrum presented in Figure 4.
- Pharmaceutical composition according to Claim 1
 or 2, in which the said idazoxan is the polymorph of form IV characterized by an X-ray diffraction spectrum comprising characteristic peaks at approximately 4.8000, 5.9000, 6.8400, 7.3200, 8.0800, 8.6600, 9.4600, 9.6800, 11.1600, 11.4000, 11.9000, 12.2200, 12.6800, 13.8400, 14.4200, 14.9800 and 18.1000 degrees θ.
 - 12. Pharmaceutical composition according to Claim 1 or 2, in which the said idazoxan is the polymorph of form IV characterized by an X-ray diffraction spectrum

comprising characteristic peaks at approximately 4.8000, 5.9000, 6.8400, 7.3200, 8.0800, 8.6600, 9.4600, 9.6800, 11.1600, 11.4000, 11.9000, 12.2200, 12.6800, 13.8400, 14.4200, 14.9800 and 18.1000 degrees θ and lacking at least one peak at approximately 6.6800, 13.5400, 15.6800, 16.8600 or 18.9000 degrees θ .

- 13. Pharmaceutical composition according to Claims 10 to 12, in which the said polymorph of form IV is characterized by a differential thermal analysis thermogram exhibiting a single maximum value at approximately 205.3 ± 0.5.
- 14. Pharmaceutical composition according to Claim 1, in which the said idazoxan monohydrate is the polymorph of form V characterized by the X-ray diffraction spectrum presented in Figure 5.
- Pharmaceutical composition according to Claim 1, 20 in which the said idazoxan monohydrate is the polymorph form V characterized by an X-ray diffraction spectrum comprising characteristic peaks approximately 5.0400, 5.8400, 7.9400, 9.2800, 9.4400, 10.1200, 12.0200, 12.5600, 12.9200, 13.7400, 13.9400, 14.8200, 15.2800, 25 14.5200, 16.2800 and 16.7400 degrees θ .
- 16. Pharmaceutical composition according to Claim 1,
 in which the said idazoxan monohydrate is the polymorph
 30 of form V characterized by an X-ray diffraction
 spectrum comprising characteristic peaks at
 approximately 5.0400, 5.8400, 7.9400, 9.2800, 9.4400,
 10.1200, 12.0200, 12.5600, 12.9200, 13.7400, 13.9400,
 14.5200, 14.8200, 15.2800, 16.2800 and 16.7400 degrees
 35 θ and lacking at least one peak at approximately
 4.7400, 6.6800, 7.5000, 8.9200, 11.5200, 14.3000,
 15.6800 or 18.9000 degrees θ.
 - 17. Pharmaceutical composition according to Claims 14

to 16, in which the said idazoxan monohydrate polymorph of form V is characterized by a differential thermal analysis thermogram exhibiting a single maximum value at approximately 205.6 ± 0.4 .

- 18. Pharmaceutical composition according to Claims 1 to 17, in which the lubricant is glyceryl behenate.
- 19. Composition according to Claims 1 to 18, which is provided in a form suitable for oral administration.
 - 20. Tablets, comprising a pharmaceutical composition according to Claims 1 to 19.
- 15 21. Tablets according to Claim 20, characterized in that they have a mass of between 50 and 1 000 mg, preferably between 100 and 600 mg.
- 22. Tablets according to Claims 20 and 21, 20 characterized in that they are provided in a leaktight packaging.
- 23. Tablets according to Claim 22, characterized in that the packaging leaktight to water vapour is composed of a tablet bottle made of polypropylene or of high-density polyethylene, of an aluminium sachet or, and preferably, of an all-aluminium blister pack.
- 24. Process for the manufacture of a tablet according 30 to one of Claims 20 to 23, comprising a stage of direct tableting of a powder mixture.
- 25. Process for the manufacture of a tablet according to Claim 24, characterized in that the said tableting5 is preceded by a stage of dry granulation, for example by compacting.
 - 26. Manufacturing process according to Claim 25, in which the active principle has a particle size,

expressed by its mean diameter, of between 50 and 250 microns.

- 27. Manufacturing process according to Claim 25, in which the active principle has a mean particle size preferably of between 75 and 150 microns and more particularly in the region of 100 to 125 microns.
- 28. Manufacturing process according to Claims 24 to 27, in which the active principle has a bulk density of between 0.4 and 0.8 and preferably between 0.5 and 0.7 and more preferably still in the region of 0.6.
- 29. Use of a composition according to Claims 1 to 19
 15 or of a tablet according to Claims 20 to 23 as medicament intended for the preventive and/or curative treatment of a pathology selected from the group consisting of depression, Parkinson's disease and severe psychotic disorders, such as schizophrenia and 20 schizoaffective disorders.
- 30. Use of a composition according to Claims 1 to 19 or of a tablet according to Claims 20 to 23, in combination with an atypical antipsychotic neuroleptic exhibiting a greater antagonist affinity for the dopamine D_2 receptor than is its antagonist affinity for the α_2 -adrenoreceptor, as medicament for the preventive and/or curative treatment of severe psychotic disorders, such as schizophrenia and schizoaffective disorders.
 - 31. Use according to Claim 30, characterized in that the said atypical neuroleptic is chosen from olanzapine, quetiapine, risperidone, sertindole or ziprasidone.
 - 32. Polymeric form I of idazoxan wherein the X-Ray spectra comprises specific peaks at about 4,0200, 6,6400, 6,9000, 7,0800, 8,0800, 9,0000, 9,9600,

9,9600, 10,8400, 11,7200, 12,1400, 12,3800, 12,9800, 13,3000, 13,5200, 14,9000, 15,0600, 15,2400 and 21,4000 degrees θ .

- 5 33. Polymeric form I of idazoxan wherein the X-Ray spectra comprises specific peaks at about 4,0200, 6.6400, 6.9000, 7.0800, 8.0800, 9.0000, 9.9600, 9.9600, 10.8400, 11.7200, 12.1400, 12.3800, 12.9800, 13.3000, 13.5200, 14.9000, 15.0600, 15.2400 and 21.4000 degrees
- 10 θ and lacking at least one peak at about 4.0200, 6.6400, 6.9000, 7.0800, 8.0800, 9.0000, 9.9600, 9.9600, 10.8400, 11.7200, 12.1400, 12.3800, 12.9800, 13.3000, 13.5200, 14.9000, 15.0600, 15.2400 and 21.4000 degrees θ .

15

- 34. Polymeric form I of idazoxan wherein the differential thermal analysis thermogram exhibiting a single maximum value at approximately 207.5 \pm 0.2.
- 35. Polymeric form II of idazoxan wherein the X-Ray spectra comprises the specific peaks at about 4.7400, 5.7200, 6.6800, 7.5000, 8.9200, 9.9600, 11.5200, 12.3000, 12.9400, 13.5400, 14.3000, 15.6800, 16.8600 and 18.9000 degrees θ .

- 36. Polymeric form II of idaxozan wherein the differential thermal analysis thermogram exhibiting a single maximum value at approximately 203.0 \pm 0.4.
- 37. Polymeric form III of idazoxan wherein the X-Ray spectra comprises the specific peaks at about 4,0400, 4.7000, 5.7400, 6.6200, 6.9200, 7.4600, 8.0400, 8.7800, 8.9800, 9.9800, 10.8200, 11.4600, 11.6400, 12.3200, 12.9400, 13.5400, 14.2400, 15.0600, 15.6200 and 16.8400 degrees θ .
 - 38. Polymeric form III of idazoxan wherein the differential thermal analysis thermogram exhibiting a single maximum value at approximately 203.8 ± 0.5 .

- 39. Polymeric form IV of idazoxan wherein the X-Ray spectra comprises the specific peaks at about 4.8000, 5.9000, 6.8400, 7.3200, 8.0800, 8.6600, 9.4600, 9.6800,
- 5 11.1600, 11.4000, 11.9000, 12.2200, 12.6800, 13.8400, 14.4200, 14.9800 and 18.1000 degrees θ .
 - 40. Polymeric form IV of idazoxan wherein the X-Ray spectra comprises the specific peaks at about 4.8000,
- 10 5.9000, 6.8400, 7.3200, 8.0800, 8.6600, 9.4600, 9.6800, 11.1600, 11.4000, 11.9000, 12.2200, 12.6800, 13.8400, 14.4200, 14.9800 and 18.1000 degrees θ and lacking at least one peak at about 6.6800, 13.5400, 15.6800, 16.8600 or 18.9000 degrees θ .

15

- 41. Polymeric form IV of idazoxan wherein the differential thermal analysis thermogram exhibiting a single maximum value at approximately 205.3 \pm 0.5.
- 20 42. Polymeric form V of idazoxan wherein the X-Ray spectra comprises the specific peaks at about 5.0400, 5.8400, 7.9400, 9.2800, 9.4400, 10.1200, 12.0200, 12.5600, 12.9200, 13.7400, 13.9400, 14.5200, 14.8200, 15.2800, 16.2800 and 16.7400 degrees θ .

- 43. Polymeric form V of idazoxan wherein the X-Ray spectra comprises the specific peaks at about 5.0400, 5.8400, 7.9400, 9.2800, 9.4400, 10.1200, 12.0200, 12.5600, 12.9200, 13.7400, 13.9400, 14.5200, 14.8200,
- 30 15.2800, 16.2800 and 16.7400 degrees θ and lacking at least one peak at about 4.7400, 6.6800, 7.5000, 8.9200, 11.5200, 14.3000, 15.6800 or 18.9000 degrees θ .